

Government of India
Ministry of Railways
Research, Designs & Standards Organisation
Manak Nagar, Lucknow - 226 011

Ref : EL/3.2.30/DC2
5.2.1980

Dated :

Modification Sheet No. RDSO/WAM4/91

PROVISION OF DUCTING FOR SAFETY VALVES FOR TAP CHANGER
TYPE NO. 32 HBB MAKE

1. **Object of modification :**
Railways have reported a few cases of splashing of oil inside the locomotive due to blowing of tap changer safety valves. When there is flashing of main contacts of tap changer, the safety valves blow. The blown out oil splashes all around. In one case fire has been reported due to splashing of oil. It is proposed to provide a ducting for the oil blown out of safety valves so that the oil is drained out of locomotive without affecting other equipments.
2. **Work to be carried out :**
Fabricate the ducting (item 2 of SKEL 3215) for both safety valves and the oil tank (item 1) as shown in SKEL 2315. Fix the ductings on the top with the aid of fixing clamps. Fix two inner clamps (item 6) with the help of existing nuts on the base of GR bushing. Fix the other two clamps by means of cheese head screws (items 7) as shown in drawing, after drilling and tapping two holes of 8 mm dia at the corners of GR body to a depth of 6 mm only. Fix the oil tank at four places as indicated in the drawing with the help of existing nuts. Connect drain pipe at the bottom of oil tank. Take the drain pipe through the floor for drainage of oil outside the locomotive.
3. **Application to class of locomotives :**
WAM4 locos, Applicable in principle to other classes of locomotives also provided with N-32 tap changers with suitable modification to oil tank (item 1) dimensions to suit the available space in the locomotive.
4. **Material required :**
As per drawing RDSO SKEL 3215.
5. **Material rendered surplus :**
Nil
6. **Reference :**
HBB sheet No. TC-64
7. **Modification drawing :**
RDSO SKEL 3215
8. **Agency for implementation :**

- i) CLW for locos under production
- ii) Railways for existing locomotive.

9. **Distribution :**

As per list attached.

Encl: 1 Drg. No. SKEL 3215

Ramesh Chandra

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for Director General/Elec.

